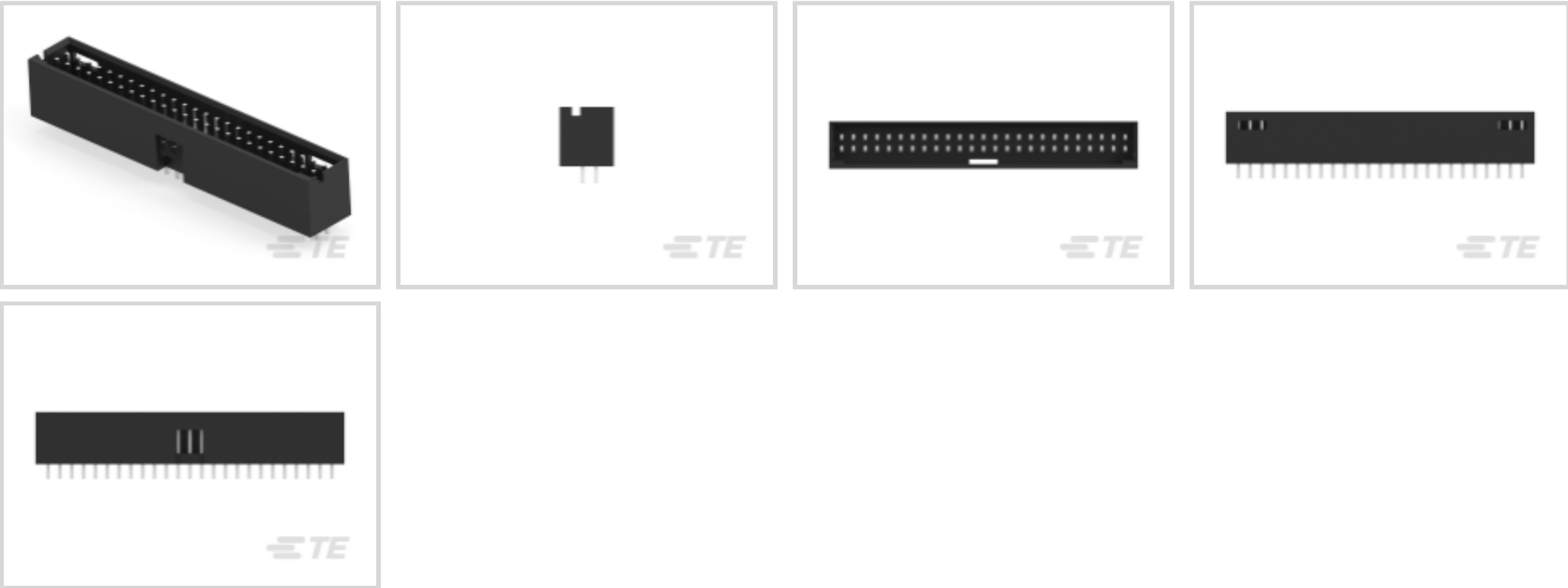




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Vertical**

Connector System: **Board-to-Board**

Number of Positions: **50**

Number of Rows: **2**

Features

Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2
Board-to-Board Configuration	Parallel

Electrical Characteristics

Insulation Resistance	5000 MΩ
Dielectric Withstanding Voltage (Max)	750 Vrms

Body Features



Connector Profile	Standard
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Primary Product Color	Black
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Contact Features

Mating Square Post Dimension	.64 mm[.025 in]
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PCB Contact Termination Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
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Contact Shape & Form	Square
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Contact Mating Area Plating Material Finish	Matte
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Contact Underplating Material	Nickel
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PCB Contact Termination Area Plating Material	Tin
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Contact Base Material	Phosphor Bronze
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Contact Mating Area Plating Material	Tin
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Contact Mating Area Plating Material Thickness	2.54 – 5.08 µm[100 – 200 µin]
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Contact Type	Pin
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Contact Current Rating (Max)	3 A
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Termination Features

Square Termination Post & Tail Dimension	.64 mm[.025 in]
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Termination Post & Tail Length	3.18 mm[.125 in]
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Termination Method to PCB	Through Hole - Solder
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Mechanical Attachment

Mating Retention	With
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Mating Retention Type	Detent Window
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Mating Alignment	With
------------------	------

Mating Alignment Type	Polarization
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PCB Mount Retention	Without
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PCB Mount Alignment	Without
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Connector Mounting Type	Board Mount
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Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
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Housing Material	Nylon-GF
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Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
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PCB Thickness (Recommended)	1.4 mm[.055 in]
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Usage Conditions

Housing Temperature Rating	Standard
Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]

Operation/Application

Circuit Application	Signal
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Industry Standards

Compatible With Agency/Standards Products	CSA
Compatible With Approved Standards Products	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	64
Packaging Method	Tray

Product Compliance

For compliance documentation, visit the product page on TE.com>

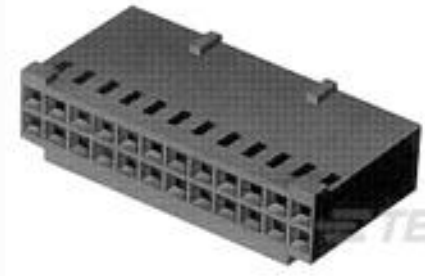
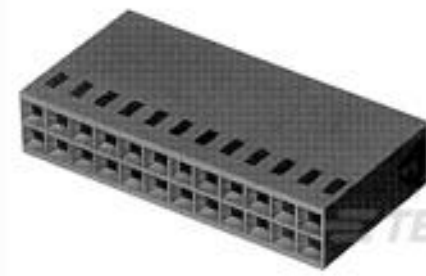
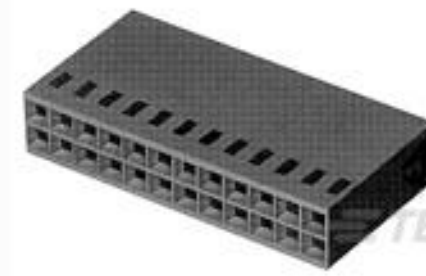
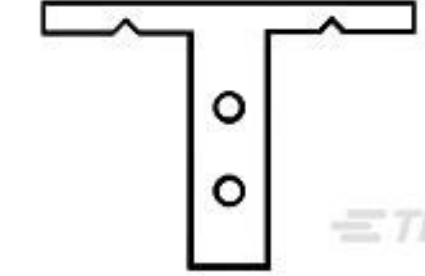
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Wave solder capable to 240°C

Product Compliance Disclaimer

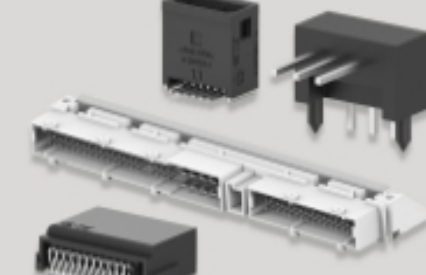
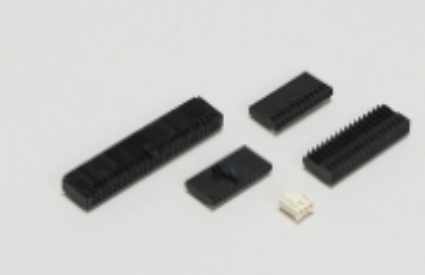
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>



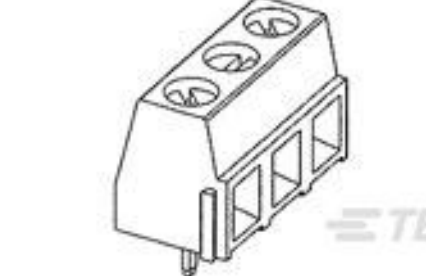
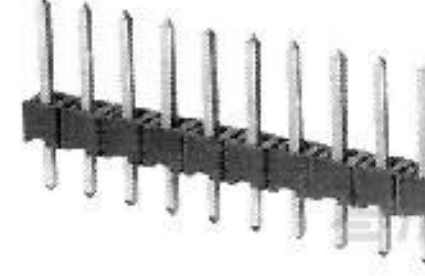
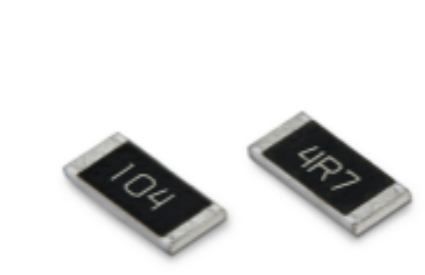
Compatible Parts

 TE Part # 4-87977-8 50 MODIV HSG COMP DR .100 POL	 TE Part # 3-87456-9 50 MODIV HSG COMP DR .100CL	 TE Part # 2-86177-1 50 MODIV HSG COMP DR .100CL	 TE Part # 87743-1 MODII KEYED BARRIER INSERT
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Also in the Series | AMPMODU Headers

 Connector Contacts(60)	 Connector Hardware(1)	 PCB Headers & Receptacles(1629)	 Wire-to-Board Connector Assemblies & Housings(5)
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Customers Also Bought

 TE Part #171826-4 POST HEADER ASSY HORIZONTAL EI	 TE Part #2-1393118-7 KUP-14D35-24=KU	 TE Part #282837-3 TERMI-BLOK PCB MOUNT 3P	 TE Part #3-826629-6 1X36 POS AMPMODU II HEADER
 TE Part #87227-6 12 MODII HDR DRST UNSHRD .100	 TE Part #GA10K3A1A DISCRETE 10K OHMS, +/-0.1C FROM 0C TO 70C	 TE Part #6-87589-1 30 MODII HDR DRST SHRD .100CL	 TE Part #2176456-1 CPF 0603 1R0 0.1% 25ppm 1K RL



Documents

CAD Files

Customer View Model

ENG_CVM_7-87589-1_R.3d_igs.zip

English

Customer View Model

ENG_CVM_7-87589-1_R.3d_stp.zip

English

Customer View Model

ENG_CVM_7-87589-1_R.2d_dxf.zip

English

3D PDF

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

AMPMODU_INTERCONNECTION_SYSTEM_SECTION5

English